

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

13 APRIL 1978

## ON BECOMING FIT

As the snow goes away each year, the physically active segment of the population begins to emerge, first the runners and the cyclists, and later the tennis players and those who play impromptu games of touch football on any bare patch of lawn they can find. The numbers of such people have increased dramatically in recent years, as the benefits of fitness to health and longevity become more widely known and appreciated.

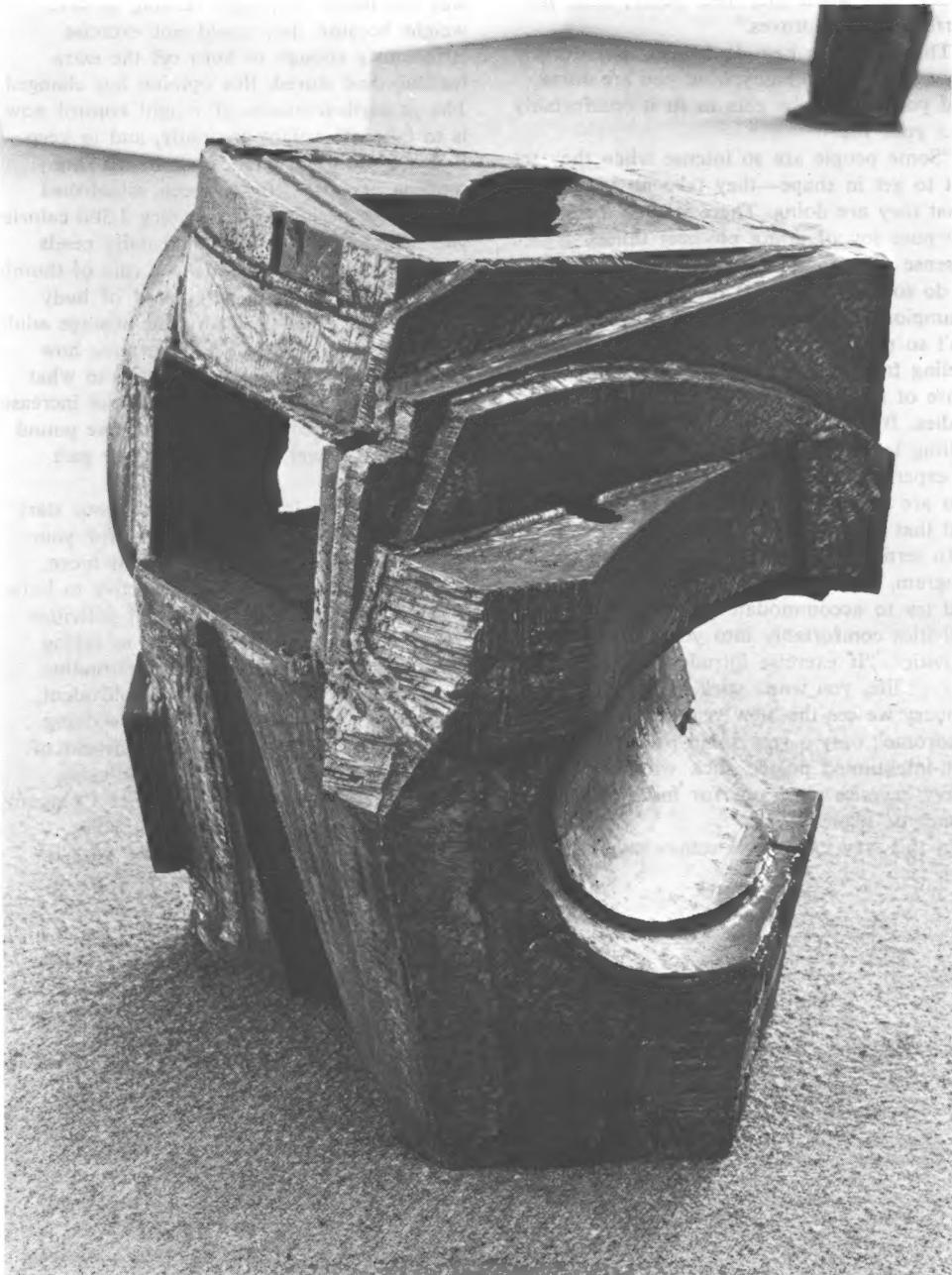
There is much more to it than that, however, according to Art Burgess, instructor of the highly successful "Early Bird Fitness Program" begun last winter on campus. Fitness has a direct effect on your mind and even your personal happiness and sense of worth.

Activity is a fundamental human need, the extreme importance of which has only recently become known. "Children require exercise for growth," Mr. Burgess said. "Adults confined to complete bed rest lose muscle tone. Held immobile under restraint for a long period of time, they will hallucinate."

"Office workers, sitting in one place for hours, experience lowered blood pressure; thus less oxygen gets to their brains, their thinking slows down, and they become drowsy. For example, the London Life Insurance Company in London, Ontario, used to have a coffee cart that brought the office workers' coffee to their desks. The company found that its employees worked more efficiently if they had to get up and move around for their coffee breaks." Some companies, in Japan for example, have been instituting exercise breaks during the day for their employees.

Mr. Burgess's Early Bird Fitness Program was directed to University staff, to give them varied physical activities for an hour before they started work in the mornings. A trial program when it began in the fall, it was filled to capacity when it was organized again in January. This spring it will be augmented by similar fitness programs at noon ("Mid-day Madness") and right after work ("The Four O'clock Quickie").

A questionnaire was sent by Art Burgess to staff in the Office of the Comptroller and in the Registrar's Office, asking them if they would be interested in a voluntary physical activities program. The rate of



Pictured above is "Oddball," a sculpture by Peter Hide, a Sessional Lecturer in the Department of Art and Design. Peter Hide is one of eleven sculptors who were chosen to attend the Commonwealth Games Sculpture Symposium. The sculptors invited to participate in the first Commonwealth-wide sculpture symposium are Dempsey Bob, Michael Banwell, Keith Oliver, and Barry Cogswell from Canada; Tim Scott and Peter Hide, from England; David Wilson and Ian McKay from Australia; Peter Nicholls from New Zealand; Berlings K. Kaunda from Zambia; and Balbir Singh Katt from India.

response was very good (forty percent), and the vast majority of the responses were in favor of such a program. A trial program of physical activities may be conducted in the Registrar's Office in the near future.

Mr. Burgess noted that such a program would benefit the University as well as the employees: "people who are active feel better, and when they feel better, their job performance improves."

There are two keys to fitness, Mr. Burgess says: you have to enjoy what you are doing, and you have to be able to fit it comfortably into your life.

"Some people are so intense when they set out to get in shape—they take no joy in what they are doing. There is such a thing as the pure joy of doing physical things, a sense of accomplishment that you can learn to do so many different things. For most championship athletes, their greatest thrill isn't so much in winning as in an aesthetic feeling from doing something well, in a sense of competence and control over their bodies. It is possible to be scared into getting in shape, but nothing has the effect of experiencing for yourself the sense that you are better at something than you were and that you can get even better."

In terms of starting a personal fitness program, you should start slowly and try to accommodate your new activities comfortably into your other activities. "If exercise intrudes into your way of life, you won't stick to it. Every January we see the 'new year's resolution syndrome': only a very small percent of those well-intentioned people stick with their heavy exercise programs for more than a month or two."

In this way exercise is somewhat like

weight-control. Those who go on crash diets most likely will regain a substantial portion of what they have lost, and those who embark on frenetic exercise programs will soon lapse into inactivity. "Any changes you make in your lifestyle or eating habits should be small and practical."

Although it was once thought that exercise was not useful to people seeking to lose weight because they could not exercise strenuously enough to burn off the extra fat they had stored, this opinion has changed. The prescribed means of weight control now is to take off weight gradually, and to keep it down with sensible eating habits and sensible exercise. "It has been established that over a period of time, every 3,500 calories you take in over your normal daily needs puts on one pound of fat. As a rule of thumb, about sixteen calories per pound of body weight is the right intake for the average adult. And as a rule of thumb to determine how much you should weigh, look back to what you weighed before your mid-twenties increase, for it is estimated that we put on one pound of fat on the average for every year past twenty-five."

"You start to lose weight when you start to use your stored energy as fuel for your daily activities. If you want to eat more, you will have to become more active to burn it off." Even comparatively small activities count towards your fitness, such as taking the stairs instead of the elevator ("running up a standard flight of stairs is equivalent to jogging a hundred yards"), or walking across the campus to a meeting instead of driving there. Mr. Burgess tells the story, again of the London Life Insurance Company, that when the company changed from manual to electric typewriters one year in the early 1960s, without exception the clerical staff all gained two pounds over the succeeding year.

Out of his experience as Director of the "Shape Up Alberta" program, Art Burgess has found that fitness tests and scare tactics are poor motivations to get people to exercise. "For a person who is completely inactive, first you have to get him active and enjoying it. Then you work on getting him fit, and then you vary the activities."

"Varying activities makes exercise more fun (and thus more likely to be continued), but it may also be more effective. One of the little-known facts about physical activity is that we quickly adapt to it. Thus, a person who sets himself to jog a mile in ten minutes every day will only benefit from this for a relatively short time. Exercise at a set level will make physical changes for only a short time. After a few months there will be no more improvement because the body has adapted to that particular workload."

"It is important, then, to change the amount and intensity of your activity from time to time. Variety makes your activities more challenging, so switch from jogging to swimming, or perhaps try some dancing. Take a half-hour walk or play actively with your kids for thirty minutes. It is the adaptation and improvement that you are really after. This takes the form of good firm muscles, weight reduction, better appearance, sounder, more restful sleep, and a greater reserve of energy for your daily round of activity."

When you start an exercise program, according to Mr. Burgess, "don't try to do too much. At the start, it's not how much exercise you do that counts, it's how often you do it. Try to find a convenient time—anytime is good, except right after meals. The less special arrangements you have to make the more likely you will be able to stick it out."

"Exercise with a friend. Good company makes the effort more enjoyable, and you will find that you are twice as consistent."

Can exercise be harmful to certain types of people? Art Burgess puts it this way: "You are in more danger from not exercising than from exercising." Seriously obese individuals, however, and persons with a history of diabetes or cardiovascular disease should undertake an exercise program only with the guidance of a physician.

This is not to say that such people should not be physically active—there are well-known cases of people who have been victims of coronary thrombosis who have gone on to run the Boston Marathon. There is considerable evidence that "regular exercise may actually prevent heart disease by increasing the blood supply to the heart muscle." It also helps fight obesity, another major cause of heart disease. Mr. Burgess expressed his personal view that physicians should learn more about exercise and should perhaps prescribe it more than they do.

He considers that in terms of facilities to carry out an exercise program, the staff and students at the University (and their families) have "the best deal in the city," because they have access to the Physical Education Centre. Unfortunately, reduced financing may make it necessary to reduce the building's hours of operation. Schedules are drawn up quarterly, and permit ample use of the swimming pools, gymnasium, ice arena and track (both indoor and outdoor), as well as squash and handball courts (which usually have to be booked well before you wish to use them) and the weight training equipment.

Recreational use of the Physical Education facilities may be curtailed somewhat this summer by their use as events and training venues for the Commonwealth Games.

# FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

Published every Thursday for the staff and interested persons by the University Publications Office. Copyright 1978.

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Printed by Printing Services  
Photographic lab work by Technical Services

Undaunted by such inconveniences, Art Burgess is now planning to delineate walking and jogging paths around campus—"at least six of them"—of various distances.

Information about these paths and about the revised summer schedule for use of the Physical Education facilities will appear in a future issue of *Folio*, as soon as the information becomes available.

## SOCIAL SCIENCES AND HUMANITIES SEPARATE FROM CANADA COUNCIL

*The following information has been received from Frank Milligan, Associate Director for University Affairs (Canada Council).*

On 1 April 1978, the Canada Council will cease to provide support for activities relating to the humanities and social sciences, except for certain limited programs based on special funds which the Council will, for the time being, continue to hold. On that date, the Social Sciences and Humanities Research Council will come into being, and will assume the programs relating to these areas, together with that part of the staff of the Canada Council administering those programs. Activities of the Canadian Commission for UNESCO and the Explorations Program will remain with the Canada Council.

Mr. André Fortier, until recently the Under-Secretary of State and a former a Director of the Canada Council, has been appointed President of the new Council. Every effort is being made to make the transition as smooth as possible and to avoid inconvenience to applicants and award-holders. For scholars and graduate students in the humanities and social sciences, the creation of the new Council will have the following consequences:

1. With the exceptions noted below in section 4, all grants and fellowships made by the Canada Council before 31 March 1978 will be administered by the new Council, and any requests for payment or reports by award-holders should be directed to that body at the following address:

Social Sciences and Humanities Research Council,  
255 Albert Street, P.O. Box 1610,  
Ottawa, Ontario.  
K1P 6G4

Telephone (effective 17 April 1978):  
(613) 995-9330

Existing file numbers will remain unchanged.

2. Subject to the exception in section 4, applications in the hands of the Canada Council on 31 March will be transferred to the new Council, and all correspondence should be directed to the address shown

- above in section 1.
3. Because all existing humanities and social sciences programs of the Canada Council (with the exception noted in 4) are being transferred to the new Council, organizations and scholars seeking support under those programs should continue to apply in the usual way, but send all requests and enquiries to the address given above in section 1.
4. Killam awards made possible by the Killam Trust will continue, for the time being, to be administered by the Canada Council. In addition, it is intended that grants for international representational travel (GRIPES) will continue, in 1978-79, to be administered on behalf of the new Council by the staff of the Canadian Commission for UNESCO, within the Canada Council.
5. With the exception of aid to visiting artists and grants to Canadian cultural organizations for visiting foreign artists, the international exchange programs administered by the Canada Council on behalf of the Department of External Affairs, together with those exchanges concluded by the Canada Council in its own name (with the Centre national de recherche scientifique in France, the Japan Society for the Promotion of Science and with the Academy of Sciences of the USSR) will become the responsibility of the new Council, and all correspondence relating to these should, after 1 April, be directed to the address given in section 1.

The transition from the Canada Council to the Social Sciences and Humanities Research Council will be made easier by the fact that the new Council will be housed in the same building as the Canada Council and will maintain close links in the immediate future. There will be shared management of all files relating to awards, and it is hoped that the telephone switchboards of the two organizations can be so linked as to permit the transfer of calls. Any misdirected inquiries, applications, requests for payment or reports will be sent to and dealt with by appropriate members of staff without delay. Until new forms have been developed to conform with new requirements, the Social Sciences and Humanities Research Council will continue to accept requests and reports submitted on the existing forms and will limit to an absolute minimum its requests to applicants or award-holders for supplementary data.

## HOCKEY DIPLOMACY

The following telegram from Bruce Rankin, Canadian Ambassador to Japan, was received by President H.E. Gunning following the

Golden Bears hockey team's tour of Japan this winter. Ambassador Rankin graduated from this University in 1941. With examination time approaching, we commend the last sentence of the telegram to those staff who may have Golden Bear hockey players in their classes (especially if those classes have anything to do with political science or diplomatic history).—Ed.

*Dr. H.E. Gunning, President, University of Alberta, Edmonton, Alberta*

*Golden Bears have won Pacific Ice Hockey tournament in outstanding fashion, winning all seven games played. Team has done a great deal here to revitalize image of [Canada] as hockey super power.*

*In addition to their heroics on the ice, the team members have been exemplary [Canadian] goodwill ambassadors and a great credit to the University and the country. I recommend that all team members receive passing grades in all subjects, and if that cannot be arranged, recommend they receive credits for participation in special course on goodwill diplomacy.*

*Bruce Rankin, Ambassador, Class of '41 Canadian Embassy, Tokyo, Japan*

Soon after their return from Japan, the Golden Bears won their fourth Canadian intercollegiate hockey championship.

## ACCOMMODATION NEEDED FOR SCULPTORS

At the Commonwealth Sculpture Symposium artists from Great Britain, New Zealand, Australia, Zambia, India, and Canada will create their sculptures on a special site on the University campus. Rooms or apartments that are within walking distance of the University are required for the artists from 28 June to 18 August. Anyone who can help in this matter should contact Lynn Sharpe at the Sculpture Symposium office, telephone 428-2365.

## BOARD OF GOVERNORS

*The Board of Govenors held its regular monthly meeting on Friday, 7 April. The following matters were among those that were considered.*

### Academic Pension Plan

On the recommendation of the Trustees of the Academic Pension Plan, the Board endorsed amendments to the Plan. These amendments to the Plan (being Order in Council numbered OC 461/73) provide for a six percent adjustment to pensions disbursed under the Plan, effective 1 July 1977.

### Membership

The Board received two nominations for

membership on the Board and resolved to forward the nominations with its endorsement to the Minister of Advanced Education and Manpower. A.M. Arbeau was nominated to serve as the Alumni Association representative and Barry Mills was nominated to serve as the representative of the Graduate Students' Association.

**The University of Alberta National Award—1978—  
In Painting and Related Arts**

In 1951 the Board of Governors instituted the University of Alberta National Awards in Letters, Music, and Painting and Related Arts, for Canadians who have made distinguished contributions over a period of time to the development of these fields in Canada. Since 1961 these awards have been rotated through the several fields.

The 1978 nominee for the award is William Perehudoff, a native of Saskatchewan. According to the report of the selection panel "Over the years he [Mr. Perehudoff] has constantly challenged himself with the best that painting can offer, and has helped establish a level and example, both in quality of work and quality of attitude, which is most significant."

Mr. Perehudoff will be presented with the medal signifying the award in Banff on 7 July.

### **Finance Committee**

The Finance Committee recommended to the Board approval of the proposed 1978-79 rates for accommodation in Michener Park, HUB, Faculté Saint-Jean, Pembina Hall, and the Lister Hall complex. The rates, which gained Board approval, are listed below. It is to be noted that all of these rates were discussed with the appropriate residents' associations and were approved by the GFC Housing and Food Services Committee on 16 March 1977.

Michener Park

<i>Micchner Park</i>	
(effective 1 June 1978)	<i>\$/month</i>
(1) Ground-floor maisonettes	\$193.00
(2) Galbraith House; second- and third-floor maisonettes; two bedroom row houses	204.00
(3) three-bedroom row houses	220.00

(3) 11

#### (4) Special End-Use

(4) Special End Units	250.00
<i>Faculté Saint-Jean</i>	
Spring Session	\$/diem
(18 May - 28 June)	9.53
Summer Session	\$/session
(30 June - 10 August)	400.26
	400.26



## APPOINTMENT

*Milburn L. Leroohl has been selected to serve as Chairman of the Department of Rural Economy with a term of office from 1 July 1978 to 30 June 1983. Dr. Leroohl, who is a Canadian citizen, received his Bachelor of Science degree from this University in 1960. In 1962, he gained his Master of Science degree in Agriculture (MSA) from the University of British Columbia and, in 1965, his PhD at Michigan State University, having submitted a dissertation titled "Expected Prices for U.S. Agricultural Commodities." Between 1965 and 1969 Dr. Leroohl was employed as a Staff Economist for the Agricultural Economics Research Council of Canada and, from 1969 to 1971, acted as Director of Research for the Council. In 1971 Dr. Leroohl joined the University's staff as a Visiting Professor and was granted tenure in 1974. Dr. Leroohl has published widely and has some administrative experience, being a member of the University's General Faculties Council.*

Spring Session (14 - 28 August)	\$/diem 10.39	\$/session 155.85
Winter Session	6.47	1,540.00
<i>Pembina Hall</i> (Winter Session)		
(1) Standard room		1,685.00
(2) Large room		1,896.00
<i>Lister Hall Complex</i> (Winter Session)		
(1) Double occupancy		1,670.00
(2) Single occupancy		2,002.00
(3) Bachelor		1,958.00

### **Building Committee**

The Building Committee recommended to the Board approval for the expenditure of \$20,076,000 from capital funds for the construction of a new Agriculture building. At present the Faculty of Agriculture and Forestry is dispersed across several different locations on campus. Even individual departments within the Faculty are fragmented into smaller components housed, in some cases, at a distance from each other. The construction of a new Agriculture building, however, would not only reduce such fragmentation and the consequent duplication of services, but it would also release 5 912 m<sup>2</sup> of assignable space for use by other faculties and departments. The proposed expenditure, it was pointed out, was estimated in terms of 1978-79 dollars and represents a realistic estimate for the cost of construction. In addition, the major sources of finances for the project will be the provincial ministry of Advanced Education and Manpower. The Board approved the recommendation of its Building Committee.

Another recommendation of the Building Committee was the approval of the proposed change in nomenclature of the Faculty of Pharmacy Council Room from its present designation to the "M.J. Huston Conference Room" in honor of the present Dean of Pharmacy who is to retire shortly after some thirty-four years of service at this University.

The Board noted its full appreciation of the invaluable service of this staff member and readily gave its approval of the recommendation.

The Building Committee also reported for information that, in accordance with the authority delegated to it by the Board of Governors, it has awarded the contract for the mechanical and electrical project of the Phase VIII Services Corridor to Lockerbie and Hole Limited. This company presented the lowest bid among eight bids for the contract that were received on call of tender. The contract price has been set at \$2,238,000.

#### **Graduate Assistant Stipends**

**Graduate Assistant Stipends**  
The Chairman of the Board's Finance Committee, E.B. Allan, reported for information that he and President Gunning meet representatives of the Graduate Students' Association on Friday, 31 March to discuss problems related to the funding of Graduate Assistants at this University. It was decided at this meeting to increase the stipends currently received by Graduate Assistants by six percent for the academic year 1978-79. Dr. Gunning, the President, with Mr. Talbot, GSA representative to the Board concurring, expressed his reluctance that this decision, although absolutely necessary, would mean a proportionate reduction in the number of Graduate Assistantships available in 1978-79. Dr. Gunning also pointed out that the reduction in the number of Graduate Assistantships would lead to a larger number of undergraduate students receiving the aid of any one GA. According to Dr. Gunning, therefore, such a reduction constituted a further example of the way in which limited funds are eroding the quality of service offered at this institution.

### Golden Bears Hockey

Prior to the adjournment of its meeting on Friday, 7 April, the Board of Governors unanimously recorded its appreciation of the excellent service done the University of

Alberta by the Golden Bears hockey team in the recent series of competition held in Japan. The feeling was expressed, and endorsed by all members of the Board who were present, that the team had conducted itself admirably as "unofficial ambassadors of goodwill."

### **HENRY KREISEL ADDRESSES FRIENDS OF THE UNIVERSITY**

University Professor and Canadian author Henry Kreisel addressed the annual dinner meeting of the Friends of the University of Alberta on Monday, 3 April, in Lister Hall.

The Friends of the University is an organization that has existed for more than thirty years, and its membership is exactly what the name implies—people with a sympathetic, personal interest in the University. Over the years, the Friends have made a special contribution toward enriching University life by bringing distinguished speakers for the Henry Marshall Tory Lecture series, by acquiring rare books and similar treasures for the Library, by publishing books and papers by people in the University, by purchasing special equipment, by funding certain prizes for students in the University (such as the R.K. Gordon Prize in English), and by helping students with supplementary scholarships.

Dr. Kreisel's talk was titled "Reflections of an Ex-Administrator"; he has spent more than nine years as an administrator in the University, variously as Head of the English Department, as Associate and then Acting Dean of Graduate Studies and Research, and as Vice-President (Academic). But, as he noted, "as one gets away from administration, it becomes less interesting." "I was apprehensive to walk into a classroom after nine years. People said the students had changed, that I had changed. But I had felt that during those nine years I had suppressed certain creative instincts and that it was time I renewed that side of my nature. Teaching brings forth the creative impulses that are the true end of the University."

"I had forgotten how demanding the teaching process is, but I found it reassuring to find that the central activity of the University goes on—the process of teaching, of research—in spite of the administrative crises."

"One of the main things I learned as an administrator is what a modern bureaucracy is like. Any large institution is a bureaucracy; this is a fact of modern life. We won't be able to change bureaucracies very much, so what we should strive for is to create humane administrators. For that reason, the humanities are more important

than ever."

"The University," he said, "is greater than any one of the people who study here, anyone who teaches here, any one administrator. For many years, I have been in love with the idea of a university, with the mission a university has in the world, and thirty-six years of association with this University has not dimmed that sense of joy. Like all great institutions, universities are run by fallible human beings . . . but the ideals are greater than all of us."

He compared the University with the North Saskatchewan River. "The river will go on flowing by long after we are gone. . . . You can't step into the same river twice. It is the same with the University—it changes, but it binds the past and the future. A university is as nearly immortal as human beings can become."

It was to this sense of continuity that he devoted much of his talk. Canada, as he noted "has had a curious history in the development of its universities." He referred to a study of the humanities in Canada in 1947; in that year, Canada was an "underdeveloped country" in terms of its higher education. It had fourteen universities, few of which gave instruction beyond the BA; only two were doing advanced work, and only seventy-four doctoral students could be found in the entire country. "Canada did not have the resources to make advanced work possible." What passed then for university libraries likely would be considered inadequate for a liberal arts college today, with none holding even a half-million volumes.

The report, he suggested, would have held true for the social sciences and only a little less so for the sciences, "and if the same report would have been done in 1957, it would not have been very different."

"The experience of the 1960s showed us that a whole generation of scholars was missing. There was a break in the continuity of Canadian universities, and it created a lot of problems. The fact that there were no social sciences in Canada to speak of meant that many problems were not properly dealt with. A whole generation of people who ought to have been leading was not there."

In the 1960s, there were not nearly enough Canadian scholars to fill the new positions that opened in universities across the country. At the University of Alberta, for example, 881 new academic staff members were hired between 1961 and 1971. "Without the scholars trained in the United States and Europe we could not have coped. The scholars who came made a tremendous contribution to the development of this country."

"But a country must have its own experts, because people who come from elsewhere

apply solutions that work elsewhere. We learned in the 1960s how important it is for a country to develop its own resources, especially its human resources."

"Universities are not likely to grow in the next decade," he said. "Because of the unavailability of academic positions, fewer students will elect for graduate studies. Will we in the 1990s, when the people hired in the sixties will be retiring, face the same problem we faced in the 1960s? There are fifty universities in Canada now, and the same pattern will be repeated in all fifty, so that in the 1990s we will have to replace some 30,000 to 40,000 scholars."

"A university is not an enterprise that can be turned on and off. It takes between seven and ten years from the time a person enters university until he becomes a scholar or a scientist. I am concerned with what may be happening to the University's resources, the resources that are necessary to having a living and vibrant university."

While avoiding the issue of whether there were actual "cutbacks" in funding to the universities, Dr. Kreisel noted that many of the things the University has to buy "are running not at eight or nine percent but twenty to thirty percent inflation." The situation is made worse by the fact that many of the things a university must buy can be bought only outside Canada, and as the value of the Canadian dollar drops, the cost to the University is greatly increased.

He noted that if one walks through a university library, one can tell when that university was having difficulties by the breaks in the runs of journals, breaks that cannot be filled later at any price.

"The University of Alberta once had a School of Architecture that it decided not to continue after its remaining staff retired in the 1930s. I wonder what would have been the result if the University had had a Faculty of Architecture during its years of growth?"

Dr. Kreisel said he was "concerned with the continuity, with what is happening to young people, that we might be losing a generation of scholars and scientists." But in spite of present crises, he expressed faith that the "central work of the University" would continue: "the teaching will go on, the learning will go on, the buildings will stand, and the river will flow."

To become a Friend of the University, one need not be a graduate of this University or any other. Sending your name and a tax-deductible donation to the association is all that is required. The Friends number 359 this year, according to a membership report given at the dinner meeting; this includes thirty-seven new members added during the previous year. Friends are entitled

## GRANTING AGENCIES

Research proposals or applications may be made to these granting agencies at any time. This list should be retained for future reference.

All research proposals or applications should be forwarded, after being signed by the Research Director, the Chairman of the Department, and receiving the approval of the Dean of the Faculty where required, to the Research Grants and Contracts Office for registration and review. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information should be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of the Deans, Directors of Institutes, Centres and Schools, and Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-2002. Note: Although the Calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advance information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised.

Code: (R) Research Funds; (E) Exchange Programs; (T) Travel Grants.

Calendar source number	Code	Granting Agency
(5)	R	The Advanced Research Project Agency—USAF/AFSC Liaison Office
(19)	R	Alberta Mental Health Advisory Council
(57)	T	Canada Council—Meeting and Exchange Grants —Travel to Canadian Learned Societies —Occasional Conferences
(58a)	E	Canada Council—Exchange Program with China—Administered by Canada Council for the Department of External Affairs
(58b)	E	Council Canada—Exchange Program with France—Administered by Canada Council for the Department of External Affairs
(58c)	E	Canada Council—Exchange Program with Japan
(58d)	E	Canada Council—Exchange Program with USSR—Administered by Canada Council for the Department of External Affairs
(95)	R	Central Mortgage and Housing Corporation
(140)	R	Department of Industry, Trade and Commerce—Grains and Oilseeds Marketing Incentives Program
(141)	R	Department of Industry, Trade and Commerce—Agricultural and Food Products Market Development Assistance Program
(160)	R	Department of the Solicitor General
(165)	R	Donner Canadian Foundation
(220)	R	International Sugar Research Foundation, Inc.
(257)	R	Medical Services Research Foundation of Alberta
(270)	R	National Aeronautics and Space Administration
(345)	R	Petroleum Research Fund—American Chemical Society
(350)	R	James Picker Foundation—Pilot Research Grants
(370)	R	Research Corporation of New York
(380)	R	The Sellers Foundation
(410)	R	US Air Force Office of Scientific Research
(415)	R	US Department of the Army
(425)	R	US Department of the Navy
(435)	R	Alexander von Humboldt Foundation
(445)	R	Wellcome Trust

(Continued from page five)

to free admission to the annual Henry Marshall Tory Lecture and to the annual dinner meeting, usually held each spring. Further information about membership may be obtained from Mrs. D. Steiner, 10915 36A Avenue, Edmonton, Alberta T6J 0E3, telephone 435-2204.

## DEPARTMENT OF MUSIC 13 APRIL TO 30 APRIL

The Department of Music has scheduled the following list of events to take place in Convocation Hall during the latter half of April. Admission to the concerts and recitals is free. The schedule, however, is tentative, and confirmation of dates is available from the Department of Music, telephone 432-3263.

John Thompson, trombone 13 April at 8 p.m.  
(Senior Recital)  
Michael Rose, piano 14 April at 5 p.m.  
(Non-compulsory Recital)  
An Evening of Opera 18 April at 8 p.m.  
The Voice/Opera Division presents "A Game of

Chance," a one act comic scene by Seymour Barab, scenes from Bizet's "Carmen," Verdi's "Falstaff," and Gluck's "Orfeo."	19 April at 5 p.m.	Tim Mallandaine, tenor (Non-compulsory Recital)	26 April at 8 p.m.
David Crowther, flute (Junior Recital)	19 April at 8 p.m.	Angela Cheng, piano (Non-compulsory Recital)	27 April at 8 p.m.
Janet Scott, pianist (Special Recital)	20 April at 4 p.m.	Duo Voice Recital	28 April at 8 p.m.
Mark Edwards, flute (Non-compulsory Recital)	20 April at 8 p.m.	Jennifer Scragg and Judith Hambley, soprano (Non-compulsory Recital)	
Michael Gervais, baryton-martin (Senior Recital)	21 April at 5 p.m.	Chamber Ensemble	30 April at 8 p.m.
John Nagy, flute (Junior Recital)	21 April at 8 p.m.	Performers: John Mahon, clarinet, Joanne Ludbrook, cello, Michael Massey, piano, and Yasuko Eastman, violin	
Rebecca Denson, cello (Senior Recital)	23 April at 8 p.m.		
Judith Holswick, candidate for Master of Music degree in Applied Music (voice)	24 April at 8 p.m.		
Brass Quintet	24 April at 8 p.m.		
Fordyce Pier, conductor	25 April at 8 p.m.		
Nancy Neumann, organ (Senior Recital)			
Robert Miskey, violin (Senior Recital)			

## BOOKS

■ F.J. Pelletier, Associate Professor of Philosophy, John King-Farlow, Professor of Philosophy, and C.E. Jarrett are co-editors of *New Essays on Rationalism and Empiricism*, Canadian Association for Publishing in Philosophy, Guelph, 1978. Essays from Canadian, British, and American scholars deal with such figures as Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume,

and Reid. Essays by Bruce Hunter, Assistant Professor of Philosophy and Dr. Pelletier are included in the volume.

## PEOPLE

- Richard Frucht, Professor of Anthropology, organized a symposium on Caribbean Studies and presented a paper titled "Production strategies in West Indian development of literature" at the Canadian Ethnology Society congress in London, Ontario. At the University of Windsor he gave a public lecture titled "An anthropological model of the last five hundred years of world history," and he read a paper on West Indian working class history before the Department of Sociology and Anthropology. At the University of Toronto he lectured on economic anthropology.
- Roger A. Shiner, Professor of Philosophy, recently presented papers to the University of Cambridge and a combined meeting of the University of Durham and the University of Newcastle.
- Gwynn Nettler, Professor of Sociology, gave the Elizabeth Laid endowed lecture in the University of Winnipeg 16 March. He spoke on "Thinking About the Future." While at the University of Winnipeg, Dr. Nettler also gave a seminar in the Sociology Department on "Uses and Abuses of 'Social Science'."
- Abram G. Konrad, Coordinator, and James M. Small, Staff Associate of the Centre for the Study of Postsecondary Education, addressed a forum on "Evaluation for institutional renewal: theory and practice" at the annual meeting of the Association for the Study of Higher Education on 18 March in Chicago.
- V.R. Fowler, Head, Non-Ruminant Research in Applied Nutrition, The Rowett Research Institute, Scotland, is in residence in the Department of Animal Science until 31 May 1978 as a current holder of a Canadian Commonwealth Fellowship. Dr. Fowler is an internationally recognized expert in the fields of animal growth, development, and nutrition.
- Maurice L. Van Vliet, Professor of Physical Education and Recreation and President of the XI Commonwealth Games Foundation has been named as a recipient of an honorary degree from the University of Windsor. He is one of six Canadians representing achievements in the arts, education, business, law, Parliament, and diplomacy to be honored at the University of Windsor's twenty-ninth Convocation this spring.
- Edward J. Rose, Professor of English, has contributed the chapter "The Shape of Blake's Vision" to *Literature and History*, the most recent issue of *Bucknell Review*.

## NOTICES

*Notices must reach the Editor by 9 a.m. the Thursday prior to publication. Written notification is necessary.*

### Building Entrances for Paraplegics

The Department of Physical Plant has updated the available information on building entrances, washroom provisions, elevators, lunchrooms, and telephones for paraplegics. Faculties, departments, associations, and individuals should telephone 432-4261 in order to have copies of the information mailed to them. Copies can also be picked up at the reception desk on the fourth floor of the General Services Building.

### Francophonie Jeunesse's Evening of Theatre

On 14 and 15 April, there will be a theatre evening at the Francophonie Jeunesse's cultural centre. Three different presentations will be offered. There will be three extracts from "La Sagouine," a creative collection in puppetry, and an interpretation of franco-albertan poetry. The performances start at 8 p.m. at the Centre d'Accueil Francophonie Jeunesse, 8815 92 Street. There will be a silver collection at the door. For further information, telephone 469-0118.

### Stimulated Recall Methodology

The Centre for Research in Teaching, Faculty of Education, is sponsoring a seminar on stimulated recall methodology on 19 April from 3 p.m. to 5 p.m. in 2-115 Education North. The seminar will acquaint staff and graduate students with stimulated recall as a research technique and it will also explore possible use of the methodology in the improvement of teaching.

### Travel Slide Presentations Required

The International Student Office in cooperation with the Faculty of Extension offers a course on travel for senior citizens during the Spring Session. Those people who have travelled, have a slide presentation, and would be prepared to share their experiences with an enthusiastic audience should contact Marion Nicely, telephone 432-4145. An honorarium is offered.

### Edmonton Area Choristers' Guild Workshop

On 22 April, the Choristers' Guild will hold a workshop at the First Presbyterian Church, 105 Street and Jasper Avenue. The clinician will be Barry Anderson of Winnipeg. The pre-registration fee is \$8 per person and \$12 per congregation, and the pre-registration deadline is 17 April. Later registrations and registration at the door is \$10 per person and \$15 per congregation. Registrations may be mailed to Rena Whistance-Smith, 14520 84 Avenue, Edmonton, Alberta, T5R 3X2.

### Showcase '78

Alberta's professional performing artists will have the opportunity to perform before sponsors, media representatives, and agents from across Canada at this year's Alberta Showcase. The four-day event will be held in Edmonton from 27 to 30 April. Artists, sponsors, and agents will be given time and meeting facilities in which to arrange specific tour and concert bookings. Performances will be staged in the Centennial Library Theatre and at the Students' Union Theatre. Attendance is by registration only, and details are available from Alberta Culture, Performing Arts Branch, Floor 11, CN Tower, 10004 104 Avenue, Edmonton, Alberta, T5J 0K5.

### Film Reference Manual

Advance orders are being taken now for the fifteenth edition of the *Film Reference Manual*, a source book listing 16mm and 35mm films available in Canada. The films are listed by director, leading players, and distributing company. The cost of the index is \$30. There is a \$6 discount for members of the Canadian Federation of Film Societies and a \$3 discount for pre-payment. Orders should be sent with a cheque and mailing address to the CFFS Index Committee, P.O. Box 484, Station A, Toronto, Ontario, M5W 1E4.

### Fall Kindergarten Program

The Department of Elementary Education Kindergarten will be accepting applications for their fall program. For further information, telephone Carol Deutscher at 432-4604 between noon and 4:30 p.m. or 437-2882 in the evenings.

### Film Showcase

The place of film in Canadian education will be the focus of a film showcase and management seminar to be held at the University from 27 to 29 April. Educators and all other individuals who are interested in the use of film in education are invited to attend "Film Futures", which is sponsored by the Edmonton Audio Visual Association. Major distributors of educational films will be showing their newest film releases on a variety of subjects including social science, history, mathematics, physical sciences, fine arts, language arts, and literature. The seminar will also deal with management, storage, retrieval, and selection of films.

The registration fee of \$20 includes all social functions as well as the film screening and seminar sessions. Further information and registration forms are available from Nick Spiliotis; EVA Film Showcase, Learning Resource Branch, Edmonton Public School Board, 10010 107A Avenue, Edmonton, Alberta, T5H 0Z8.

#### **Summer School for Children With Learning Difficulties**

The Faculty of Education Clinical Services is offering a summer school program for children with learning difficulties. The program will take place from 17 July to 11 August from 10 a.m. to 12:30 p.m. daily, and it will focus on individual diagnostic teaching, remedial programming, and exposure to a variety of urban experiences.

Priority will be given to children from northern communities and communities at least sixty miles from Edmonton, children who have had little or no exposure to a large urban centre, and children who are of at least average potential but who are significantly behind in one or more school subjects. The ages of children eligible to attend are from nine to twelve years old.

The program is a free service, and parents will only be responsible for assuming accommodation and travel costs. Since the program will be limited in the number of children it can accept, it is recommended that registration forms be sent prior to 15 May. Further information and registration forms are available from Grace Malicky: Summer School for Children with Learning Difficulties, 1-135 Education North, Faculty of Education Clinical Services, University of Alberta, Edmonton, Alberta, T6G 2E1.

#### **CKSR Broadcasting Licence**

CKSR has announced its participation in the Public Hearing of the Canadian Radio and Television Commission to be held on 9 May at the Sheraton Calgary Inn, Calgary. The CRTC will examine CKSR's application for a broadcasting licence for carrier current to serve Lister Hall on 1580 kHz (AM) at an out-put of twenty watts from 8 a.m. to midnight daily. The application is posted for public viewing in 256 Students' Union Building.

#### **THIS WEEK AND NEXT**

*Listings must reach the Editor by 9 a.m. Thursday one week prior to publication. Written notification is preferred.*

#### **13 APRIL, THURSDAY**

##### **Cinematheque 16**

7:30 p.m. *This Island Earth* (United States, 1955). Directed by Joseph M. Newman and starring Jeff Morrow and Rex Reason. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

##### **Grad House**

Thursday Night at Grad House. Open 8 p.m. to midnight. Refreshments available.

#### **Popular Music Concert**

8 p.m. "Warm Rain in April," a concert of popular music by David Cunningham, Wilfred Kozub, Don Stardom, and Gary Sill. Centennial Library Theatre. Admission is \$3.50 regular and \$2.50 for students and senior citizens. Tickets available at all Woodwards outlets and at the door.

#### **Canadian Feature Films/NFB Shorts**

9 p.m. *Les Ordres* and *What on Earth*. Strathcona Municipal Library, Sherwood Park. Admission is free.

#### **14 APRIL, FRIDAY**

##### **Alberta Stage Band Festival**

1 p.m. The Alberta Stage Band Festival (provincial finals). Students' Union Theatre. Admission is \$3 regular and \$1 for students. Tickets available at the door.

##### **Grad House**

Friday Night at Grad House. Open 4 p.m. to 6 p.m. and 8:30 p.m. to midnight. Refreshments available.

##### **Faculty Club**

*Downstairs*. Fish bake: baked stuffed Cohoe salmon, salad bar, fresh vegetable, potato croquettes, dessert table, \$6.50. *Upstairs*. Chef's special: cream of broccoli soup, heart of palm salad, veal cordon bleu, duchess potato, sautéed zucchini, carrot cake, \$7.95. Also regular dinner menu. Reservations required.

##### **Edmonton Symphony Orchestra**

8 p.m. The Edmonton Symphony Orchestra performs with Michael Massey, pianist. Pierre Hétu conducting. Convocation Hall. Tickets available from the HUB Box Office, all Bay Ticket outlets, 3-82 Fine Arts Building, and at the door.

##### **Popular Music Concert**

8 p.m. "Warm Rain in April," a concert of popular music by David Cunningham, Wilfred Kozub, Don Stardom, and Gary Sill. Centennial Library Theatre. Admission is \$3.50 regular and \$2.50 for students and senior citizens. Tickets available at all Woodwards outlets and at the door.

##### **Observatory Tours**

9 p.m. Observatory tours and observation of the night sky (weather permitting). Physics Building. Admission is free, but reservations are required. For further information and reservations, telephone 432-4201.

#### **15 APRIL, SATURDAY**

##### **Alberta Stage Band Festival**

1 p.m. to 8 p.m. The Alberta Stage Band Festival (provincial finals). Students' Union Theatre. Admission is \$3 regular and \$1 for students. Tickets available at the door.

#### **Faculty Club**

*Downstairs*. Saturday buffet: beef stroganoff, buttered noodles, fresh vegetable, salad bar, dessert table, \$5.50.

*Upstairs*. Chef's special: bouillabaisse, cucumber salad, roast duckling, wild rice, fresh vegetable, cherries jubilee, \$7.95. Also regular dinner menu. Reservations required.

##### **Richard Eaton Singers**

8 p.m. Richard Eaton Singers in concert. Larry Cook conducting. Guest artists are the University of Alberta Faculty Brass Quintet and Janice Lindskoog, harp. All Saints Cathedral. Admission is \$3.50 regular and \$2.50 for students and senior citizens. Tickets available at Mike's Ticket Office, the Department of Music, and at the door.

##### **Popular Music Concert**

8 p.m. "Warm Rain in April," a concert of popular music by David Cunningham, Wilfred Kozub, Don Stardom, and Gary Sill. Centennial Library Theatre. Admission is \$3.50 regular and \$2.50 for students and senior citizens. Tickets available at all Woodwards outlets and at the door.

#### **16 APRIL, SUNDAY**

##### **Cinematheque 16**

2 p.m. *Citizen Kane* (United States, 1941). Directed by Orson Welles and starring Orson Welles and Joseph Cotten. *Downstairs*, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

##### **Richard Eaton Singers**

8 p.m. Richard Eaton Singers in concert. Larry Cook conducting. Guest artists are the University of Alberta Faculty Brass Quintet and Janice Lindskoog, harp. All Saints Cathedral. Admission is \$3.50 regular and \$2.50 for students and senior citizens. Tickets available at Mike's Ticket Office, the Department of Music, and at the door.

#### **18 APRIL, TUESDAY**

##### **Tales of a Nation**

7:30 p.m. "Tales of a Nation," a sequence of familiar Biblical stories performed by John Stuart Anderson. St. John the Evangelist's Anglican Church. Admission is \$1. Tickets available by telephoning 436-6566 or 434-8955 and at the door.

##### **Alberta College Recital**

8 p.m. A recital by Shelley Younge, flautist, and Eileen Keown, pianist. Provincial Museum Auditorium.

#### **19 APRIL, WEDNESDAY**

##### **Canadian Feature Films/NFB Shorts**

8 p.m. *Between Friends and Neighbors*.

St. Albert Public Library Annex. Admission is free.

## 20 APRIL, THURSDAY

### Cinematheque 16

7:30 p.m. *Rashomon* (Japan, 1950). Directed by Akira Kurosawa and starring Toshiro Mifune and Machiko Kyo. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

### Canadian Feature Films/NFB Shorts

9 p.m. *Between Friends and Neighbors*. Strathcona Municipal Library, Sherwood Park. Admission is free.

## 21 APRIL, FRIDAY

### Grad House

Friday Night at Grad House. Open 4 p.m. to 6 p.m. and 8:30 p.m. to midnight. Refreshments available.

### Faculty Club

*Downstairs*. Friday buffet: prime rib of beef, baked ham, salad bar, fresh vegetable, baked potato, dessert table, \$5.50.

*Upstairs*. Chef's special: onion soup, Waldorf salad, chicken Kiev, rice, fresh vegetable, French pastry, \$7.95. Also lobster soufflé, \$15, and regular dinner menu. Reservations required. Entertainment: Pepper Mill.

### Dance Concert

8 p.m. The Dance Program of Grant MacEwan Community College presents a scholarship dance concert. Students of the program will perform ballet, modern, and jazz dances. Centennial Library Theatre. Admission is \$3 regular and \$2.50 for students and senior citizens. Tickets available at the Jasper Place Campus and at the door.

### Observatory Tours

9 p.m. Observatory tours and observations of the night sky (weather permitting). Physics Building. Admission is free but reservations are required. For further information and reservations, telephone 432-4201.

## 22 APRIL, SATURDAY

### Lampoon Puppeteers

10 a.m. and 2 p.m. "Clowning Around," a children's program performed by the Lampoon Puppeteers. Centennial Library Music Room. Admission is \$1.50 regular and \$1 for children. Tickets available at the door.

### Faculty Club

*Downstairs*. Saturday buffet: beef kabob, roast potatoes, fresh vegetable, salad bar, dessert table, \$5.50.

*Upstairs*. Chef's special: consommé with

sherry, leek salad, filet mignon chasseur, Theresa potatoes, fresh vegetable, Black Forest cake, \$7.95. Also lobster soufflé, \$15, and regular dinner menu.

## EXHIBITIONS AND PLAYS

### Students' Union Art Gallery

*To 14 April*. An exhibition of the paintings of Joseph Reeder.

*From 22 April*. An exhibition of the sculpture by Isla Burns.

### University Art Gallery and Museum

*To 14 April*. "Quebec T.V. and Company," an exhibition of the work of Ernest Gendron. *Continuing*. An exhibition of the final presentations from graduate students of the Department of Art and Design.

*Continuing*. "Hygiene of art: tearing up works of art," an exhibition of over three hundred original works of art collected from all over the world by Hervé Fisher.

### Provincial Museum

*Continuing*. "Ukrainians in Canada: their beautiful dream," an exhibit from the Ukrainian Arts and Crafts Museum in Saskatoon.

*To 21 April*. "Preserving Alberta's public records," an exhibition indicating the extent and variety of government material preserved by the Provincial Archives.

### Edmonton Art Gallery

*Continuing*. "Pastoral Pleasures," an exhibition of over forty works from the Gallery's permanent collection.

*From 14 April*. "Recent Accessions," an exhibition of works acquired by the Gallery in 1977.

*From 14 April*. "Eugene Atget," an exhibition of photographs by a pioneer of documentary photography.

### Rice Gallery

*To 15 April*. An exhibition of the paintings of Alfred Schmidt.

*From 16 April*. An exhibition of the paintings of Madame Ilda Lubané.

### Graphica

*To 15 April*. Erotic prints by Norboru Sawai and Suzanne Gauthier.

*From 17 April*. An exhibition of the drawings of Gloria Cantwell.

### Latitude 53

*From 13 April*. An exhibition of recent sculpture by Lilian Klimek. Latitude 53.

### Citadel Theatre

*From 18 April*. *Dames at Sea*. Directed and choreographed by Diane Nyland with musical direction of Peter Yakimovich. Shotor Theatre. For ticket information and show times contact the Citadel Box Office, telephone 425-1820.

### Theatre 3

*From 13 April*. Ferenc Molnar's *The Guardsman*. Directed by Robert Graham. For ticket information and show times contact the Theatre 3 Box Office, telephone 426-6870.

### Studio Theatre

*To 16 April*. Geoffrey Ursell's *The Running of the Deer*. Directed by Howard Dallin. For ticket information and show times contact the Studio Theatre Box Office, 3-146 Fine Arts Building, telephone 432-2495.

### Northern Light Theatre

*Continuing*. John Murrell's *Waiting for the Parade*. Edmonton Art Gallery Theatre. For ticket information and show times contact the Northern Light Box Office, telephone 429-3110.

### Vancouver Playhouse

*21 and 22 April*. Joe Orton's *Loot*. Presented by the Vancouver Playhouse. Students' Union Theatre. Performances at 8:30 p.m. each evening. Admission is \$4. Tickets available at the HUB Box Office, Mike's Ticket Office, and all Woodwards stores.

## LECTURES AND SEMINARS

### 13 April, Thursday

#### Botany Seminar

11 a.m. "The vegetation of Nahanni National Park, Northwest Territories," with speaker Stephen S. Talbot of the Forest Management Institute, Fisheries and Environment Canada. M-149 Biological Sciences Centre.

#### Plant Science Thesis Seminar

1:30 p.m. "Herbaceous vegetation control with herbicides during conifer seedling establishment for reforestation," with speaker Danny Blackmore. 490 Agriculture Building.

### 14 April, Friday

#### Botany Seminar

2 p.m. "Vegetational history of the Great Lakes region," with speaker William S. Benninghoff of the University of Michigan. M-149 Biological Sciences Centre.

### 17 April, Monday

#### Biochemistry Seminar

4 p.m. "Defective mutants of *F pili*," with speaker P. Fives-Taylor of the University of Vermont. 470 Medical Sciences Building.

#### Botany Seminar

4:30 p.m. "Ecophysiological responses and patterns of resource use of early successional plants," with speaker Fakhri Bazzaz of the University of Illinois. M-149 Biological Sciences Centre.

### 18 April, Tuesday

#### Biochemistry Seminar

4 p.m. "What can the sequence of the initiator of tRNA from *Mycoplasma mycoide*

*var. capri* tell us about the origins of the Mycoplasmataceae?" with speaker R.T. Walker of Birmingham University. 470 Medical Sciences Building.

19 April, Wednesday

**Public Lecture**

3 p.m. "Structure planning in Britain: the first few years experience," with speaker Gordon E. Cherry of the University of Birmingham. 345 Agriculture Building.

20 April, Thursday

**Public Lecture**

10 a.m. "An evaluation of recreation research and policy in Britain," with speaker Gordon Cherry of the University of Birmingham. 345 Agriculture Building.

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## POSITIONS VACANT

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### ACADEMIC POSITIONS

#### **Director of the Office of Institutional Research and Planning**

A Director of the Office of Institutional Research and Planning will be appointed shortly. The appointment will be effective as soon as possible, but not later than 1 July 1978. Applicants should be capable of providing leadership to the staff in the Office and of doing, planning, and directing research. The applicant should be familiar with the University and would continue to have a part-time appointment in a department/faculty. Indications of interest are invited from both male and female members of the staff. Please indicate interest by writing during the next week to M. Horowitz, Vice-President (Academic), 3-5, University Hall.

### NON-ACADEMIC POSITIONS

*The following list includes several full-time continuing positions which have received staffing approval from the Position Control Committee. To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 7 April.*

Clerk Typist II (\$645-\$753)—Vehicle Pool Division, Clerk Steno II (\$645-\$780)—Canadian Institute of Ukrainian Studies; Dentistry  
Senior Clerk (\$698-\$845)—Personnel Services and Staff Relations  
Secretary (\$243.30, part-time, trust)—Geology  
Secretary (\$813-\$995)—Biochemistry; Occupational Therapy  
Calendar Clerk (\$878-\$1,080)—Office of the Registrar  
Bacteriology Technologist I/II (\$477-\$669, half-time, term, trust)—Medical Bacteriology  
Computer Assistant I (\$645-\$780)—Computing Services  
Animal Assistant I (\$671-\$813, trust)—Health Sciences Animal Centre  
Storeman I (\$698-\$845)—Bookstore (two positions)  
Technical Assistant (\$780-\$954)—Technical Services  
Maintenance Man I (\$780-\$954)—Housing and Food Services  
Technician I (\$845-\$1,036, trust)—Mechanical Engineering  
Technician I (\$845-\$1,036, term)—Mechanical Engineering  
Curriculum Technician I (\$845-\$1,036)—Legal Resource Centre, Extension

Technician I/II (\$845-\$1,175, trust)—Pharmacology  
Electronics Technician I (\$878-\$1,080)—Technical Services  
Technician II (\$945-\$1,175, trust)—Physiology  
Chemical Technician II (\$945-\$1,175)—Animal Science  
Electronics Technician II/III (\$995-\$1,395)—Biochemistry  
Engineering Technologist III (\$1,175-\$1,458)—Physical Plant, Engineering  
Specialist Technician (\$1,523-\$1,900)—Physics

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## ADVERTISEMENTS

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*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance and are accepted at the discretion of the Editor. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.*

### Accommodations available

Luxury two-bedroom condominium in Kihei, Maui; available from 1 April; \$35 per night for four. 478-6077; 475-7762.  
Renting 4 July - 22 August—fully furnished apartment; one bedroom, den, library. \$628 for entire period; \$100 damage deposit—payment in advance. Twenty minutes from University. 484-8224 after four.  
For sale by owner—home in executive Blue Quill for under \$100,000. Fully carpeted, four-bedrooms, 2½ bathrooms, split-level home includes main-floor family room with tyndalstone fireplace and patio doors, bright, airy kitchen, spacious living and dining room with impressive entrance foyer. This beautiful home also has a double garage and is located on large landscaped lot. 436-3617; 425-0110 extension 205.

Sublet—May - August. One-bedroom apartment, fully furnished. Five minutes from University. 428-8887.

For sale by owner—condominium. Quick, easy access to University and downtown. Two bedrooms, two baths, air conditioned; six major appliances plus wall units. All amenities. Underground, heated parking. By appointment only. 488-8542.

For sale—Ermineskin. Three-bedroom bungalow, 1½ baths, fireplace, double attached garage. Offers. Telephone weekends or evenings. 435-4346.

For rent—near University. Professor's furnished three-bedroom house with garage, two fireplaces. Available 1 July for one year. 436-9725.

For rent—3 July - 16 August 1978. Furnished three-bedroom house in Laurier Heights. Direct ten-minute bus to University and downtown. \$650 for the period, plus damage deposit. References required. 432-2544 or 484-4533 (evenings).

Escape from Alberta's next winter to evergreen B.C. Beautiful location fronting Georgia Strait, one hour from West Vancouver at Gibson's, B.C. Fully furnished two-bedroom home. Large living room, kitchen, overlooking ocean; electric heat; broadloom throughout; all major appliances; open fireplace; garage; attractive grounds. Available October to April, or part thereof. Will rent to careful tenant or consider rental exchange for Edmonton house. References required. Telephone owner (Edmonton) 475-4533.

For rent—1 July for one year. Belgravia. Furnished four-bedroom house; 2½ baths, large garage. References and damage deposit required. \$600

monthly. 436-0577.

Sublet for summer—one-bedroom furnished apartment in Campus Towers. 439-9343 between 5 - 7 p.m.

For sale—321 acres, or part. Unspoiled nature, conifers, wildlife from moose to mouse. Lake, creek, ponds, rolling landscape. Tall forest, some tame hay. 55 miles west of city; 53 on paved highway. Owner, 432-7145 evenings.

For sale—spacious bungalow within easy access of University. Three bedrooms on main floor, two open fireplaces, sunken family room with doors opening onto patio. Excellent home with professionally landscaped yard. Telephone Denise Rout, 432-7398; 436-5250 Spencer Real Estate.

For rent—executive four-bedroom split, carpet throughout, central vacuum, smoke detectors, patio doors; twelve minutes to University. 2 July - 16 August. \$600. 435-4541.

For rent—1 June 1978 to 1 August 1979. Grandview Heights. Four-five bedroom two storey furnished home on quiet crescent. References. \$500 damage deposit. No cats or dogs. \$795 monthly. 434-3942.

For sale—Lake Wabamun; one acre treed lot. Offers. Telephone weekends or evenings. 435-4346. Townhouse, 1,233 square feet, three bedrooms, three baths, garage. Telephone 459-5012 evenings.

For rent—July, August. Furnished four-bedroom house, two baths; 15-minute walk to University. 437-2170.

For rent—1 July 1978 - 31 July 1979. Malmo four-bedroom split-level, furnished, 1½ baths, rumpus room, two fireplaces. Major bus routes one block; near all schools; two miles to campus. 435-5433.

For sale—exclusive in Aspen Gardens. Comfortable family living can be yours in this well-built four-bedroom home with main floor family room and open fireplace. Quiet crescent location facing small park. Telephone Deanna Larson, 434-4344 or 436-5250. Spencer Real Estate.

For rent during Summer Session—four-bedroom bungalow (Southgate). Fully furnished. Direct bus to University. \$500 monthly plus damage deposit. 434-3896. p.m.

For rent—three-bedroom furnished bungalow. Greenfields. Month of August. 434-8072.

For sale—do you need six bedrooms? Then this uniquely designed and conveniently located home in Petrolia may be the answer. Close to all schools, excellent bus service to University. Telephone Deanna Larson 434-4344 or 436-5250. Spencer Real Estate.

London, England. Two-bedroom apartment to rent. August. Appliances, color television, private parking. Near Hyde Park at Lancaster Gate. \$600. Damage deposit, \$200. References. 433-8019.

For sale by owner—executive colonial style townhouse, Riverbend. 1,440 square feet, three bedrooms, fireplace, double garage, automatic opener; many extras. Originally show home. 424-4063; 436-7745.

For rent—three bedroom bungalow. Finished basement with fireplace, study, bedroom, bath. Double garage. Furnished or semi-furnished. Malmo. \$550 monthly. One-year lease, August 1978. 435-5415.

For rent—10 June - 15 August (dates negotiable). Attractive, fully furnished three-bedroom house in Garneau. Dishwasher, washing machine. Well treed; sun porch. \$350 monthly. Damage deposit. 432-0864.

For rent—attractive older three-bedroom house; Mill Creek ravine area, central to campus and downtown. Furnished for young family. 15 May to 15 December. 439-2691 evenings.

For rent—rustic country home 35 miles from Edmonton; garden, full utilities, river; 8 bedrooms. Available May - October. \$550 monthly. Telephone Karen, 967,2086.

To sublet—furnished two-bedroom apartment.

May - August. 435-2132.

For sale by owner—Belgravia semi-bungalow; 1,260 square feet, three bedrooms, fully carpeted, immaculate, attractive interior. Very nicely landscaped with exceptional backyard; single heated garage. \$81,900. Principals only. 435-6164 evenings.

Private sale—Petrolia bi-level, fully developed, four bedrooms, two bathrooms, double garage. Three-minute walk to University bus routes. \$83,500. 435-7825.

For rent—excellent basement suite; two bedrooms, new carpet throughout, washer, dryer, fridge, stove; 1,000 square feet; wet bar. Only three years old; 75 Avenue - 108 Street. \$325 monthly; 100 damage deposit. Available 1 May. 434-0801 after six.

Sublet—three-bedroom furnished, carpeted townhouse near University; minutes to downtown, Patio, garden, finished basement. \$420 monthly (negotiable). May - August. 436-8503.

For rent—one year from July. Four bedrooms, two bathrooms, fireplace, deck, double garage. Lendum. 434-0517; 432-3579.

For sale—Aspen Gardens. Attractive three-bedroom bungalow; developed downstairs, double garage. Ravine area. Must sell. Blue Quill—quiet area. Three-bedroom deluxe, immaculate split-level, superior landscaped lot, family room, double attached garage. July possession. Mrs. Pat Anderson, Royal Trust, 435-4869; 434-4460 (residence).

For sale—three-bedroom condominium, North Mill Woods. Double carport, 1½ baths, sliding doors to patio and fenced yard. Near schools, shopping centre and bus. \$52,500. Telephone 462-8440. No agents please.

Renting—new three-bedroom home, near University; reliable students or professionals preferred, no pets; references and deposit. 433-7556 evenings.

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